

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/802,861	03/12/2001	Son Phan-Anh	017.38738X00	3307	
20457	7590 05/21/2004	EXAMINER			
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889			LY, NGHI H		
			ART UNIT	PAPER NUMBER	
			2686	<i>A</i> _	
			DATE MAILED: 05/21/2004	12	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Appl	ication No.	Applicant(s)				
		09/8	02,861	PHAN-ANH ET A	PHAN-ANH ET AL.			
		Exan	niner	Art Unit				
		Nghi	H. Ly	2686				
The Period for Re	e MAILING DATE of this commun	ication appears o	n the cover sheet v	vith the correspondence a	ddress			
THE MAIL - Extensions after SIX (6) - If the perior - If NO perior - Failure to read Any reply re	ENED STATUTORY PERIOD F LING DATE OF THIS COMMUNI of time may be available under the provisions MONTHS from the mailing date of this comm d for reply specified above is less than thirty (3 d for reply is specified above, the maximum state eply within the set or extended period for reply eceived by the Office later than three months a ent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In nunication. 0) days, a reply within the atutory period will apply will, by statute, cause the	no event, however, may a ne statutory minimum of th and will expire SIX (6) MC ne application to become A	reply be timely filed irty (30) days will be considered time INTHS from the mailing date of this of NBANDONED (35 U.S.C. § 133).				
Status								
1)⊠ Res	sponsive to communication(s) file	ed on <i>01 March 2</i>	004					
	 1) Responsive to communication(s) filed on <u>01 March 2004</u>. 2a) This action is FINAL. 2b) This action is non-final. 							
3)☐ Sind	,—							
Disposition o	of Claims							
4a) 0 5)	Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Application F	Papers							
10)⊠ The App Rep	specification is objected to by the drawing(s) filed on <u>01 March 200</u> licant may not request that any objected to lacement drawing sheet(s) including oath or declaration is objected to	<u>04</u> is/are: a)⊠,a ction to the drawing the correction is re	g(s) be held in abeya equired if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 C	FR 1.121(d).			
Priority unde	er 35 U.S.C. § 119	•						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s)								
	References Cited (PTO-892)			Summary (PTO-413)				
3) 🔲 Information	Oraftsperson's Patent Drawing Review (Pin Disclosure Statement(s) (PTO-1449 or s)/Mail Date			(s)/Mail Date Informal Patent Application (PT	O-152)			

Art Unit: 2686

DETAILED ACTION

Drawings

1. The drawings were received on 03/01/2004. These drawings are acceptable.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 15, 19, 21 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07).

Regarding claims 15 and 21, the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) teaches a method of recovering location information of a subscriber in a mobile network (see page 13, lines 16-19), the method comprising: upon a Serving-Call State Control Function (S-CSCF) receiving a call setup request for the subscriber from Interrogating-Call State Control Function (I-CSCF) (see page 53, Fig.B.3, V1), forwarding a route request to a User Mobility Server (UMS) (see page 53, Fig.B.3, V6) and receiving a home address of the subscriber (see page 53, Fig.B.3, V5), forwarding the call setup request from the S-CSCF to a home agent at the home address of the subscriber (see page 53, Fig.B.3, V8), forwarding the call setup request from the home agent to the

Art Unit: 2686

subscriber (see page 53, Fig.B.3, V11), and forwarding an address update from the subscriber to the S-CSCF (see page 53, Fig.B.3, V7).

Regarding claims 19 and 25, the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) teaches a method of recovering location information of a subscriber in a mobile network (see page 13, lines 16-19), the method comprising: upon an Interrogating-Call State Control Function (I-CSCF) receiving a call setup request for the subscriber (see page 53, Fig.B.3, V1), forwarding a route request to a User Mobility Server (UMS) (see page 53, Fig.B.3, V6) and receiving a home address of the subscriber (see page 53, Fig.B.3, V5), forwarding the call setup request from the I-CSCF to a home agent at the home address of the subscriber (see page 53, Fig.B.3, V8), forwarding the call setup request from the home agent to the subscriber (see page 53, Fig.B.3, V11), and forwarding an address update from the subscriber to the I-CSCF (see page 53, Fig.B.3, V8).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

Art Unit: 2686

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1, 2, 5, 8, 9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bharatia (Pub.No.: US 2001/0031635 A1).

Regarding claims 1, 8 and 9, Bharatia teaches a method of recovering location information of a subscriber in a mobile network (see page 4, [0081]), the method comprising: forwarding a registration request from the subscriber to a Serving-Call State Control Function (S-CSCF) (see fig.3) including the subscriber's Transport Address (TA) which is a current Care of Address of the subscriber (see page 4, [0079]), forwarding a location update from the S-CSCF to a Home Subscription Server (HSS) (also see fig.3) including the subscriber's TA and address of the S-CSCF (also see page 4, [0079]), and storing information including the subscriber's TA in the HSS so as to be protected against loss (see page 4, [0081], the teaching of Bharatia inherently teaches storing information so as to be protected against loss).

Bharatia does not specifically disclose storing data. However, those skilled in the art thus would appreciated that the teaching of Bharatia could be modified such that storing data including the subscriber's TA in the HSS without changing the scope of Bharatia's invention.

Therefore, it would have been obvious to one ordinary skill in the art at the time

Art Unit: 2686

of the invention was made to modify the teaching of Bharatia, in order to prevent data from being lost.

Regarding claim 2, Bharatia teaches upon the S-CSCF losing information, lost information including the subscriber's TA may be restored to the S-CSCF from the information stored in the HSS (see page 4, [0081]).

Bharatia does not specifically disclose storing data. However, those skilled in the art thus would appreciated that the teaching of Bharatia could be modified such that lost data including the subscriber's TA may be restored to the S-CSCF from the data stored in the HSS without changing the scope of Bharatia's invention.

Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify the teaching of Bharatia, in order to prevent data from being lost.

Regarding claims 5 and 12, Bharatia teaches a method of recovering location information of a subscriber in a mobile network (see page 4, [0078] and [0081]), the method comprising: forwarding a registration request from the subscriber to a Serving-Call State Control Function (S-CSCF) (see fig.3) including the subscriber's TA Transport Address (TA) which is a current Care of Address of the subscriber (see page 4, [0079]), forwarding a location update from the S-CSCF to a Home Subscription Server (HSS) (see fig.3) including the subscriber's TA (also see page 4, [0079]), and storing information including the subscriber's TA in the S-CSCF so as to be protected against loss (see page 4, [0078] and [0081], the teaching of Bharatia inherently teaches storing information so as to be protected against loss).

Art Unit: 2686

Bharatia does not specifically disclose storing data. However, those skilled in the art thus would appreciated that the teaching of Bharatia could be modified such that storing data including the subscriber's TA in the S-CSCF without changing the scope of Bharatia's invention.

Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify the teaching of Bharatia, in order to prevent data from being lost.

7. Claims 3, 4, 6, 7, 10, 11, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bharatia (Pub.No.: US 2001/0031635 A1) in view of Taguchi et al (US 6,136,532).

Regarding claims 3, 6, 10 and 13, Bharatia teaches storing data in the HSS (see page 4, [0078], [0079] and [0081]). Bharatia does not specifically disclose storing data in a non-volatile memory.

Taguchi teaches storing data in a non-volatile memory (see column 16, lines 53-58).

Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to provide the teaching of Taguchi into the system of Bharatia in order to retain the data in the event of power losses.

Regarding claims 4, 7, 11 and 14, the combination of Bharatia and Taguchi further teaches storing data in a non-volatile memory in the HSS comprises storing data in a hard disk drive (see Taguchi, column 16, lines 53-58).

Art Unit: 2686

8. Claims 16, 22 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) in view of Sanchez-Herrero et al (Pub.No.: US 2002/0147845 A1).

Regarding claims 16, 22 and 26, the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) teaches the method of claims 15 22 and 26. The 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) does not specifically disclose forwarding the route request to the UMS comprises forwarding an indication to the UMS that the S-CSCF fails to have a Care Of Address of the subscriber.

Sanchez-Herrero et al (Pub.No.: US 2002/0147845 A1) teaches forwarding the route request to the UMS comprises forwarding an indication to the UMS that the S-CSCF fails to have a Care Of Address of the subscriber (see page 5, [0047]).

Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to provide the teaching of Sanchez-Herrero into the system of the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) in order to deliver performance feedback to the sender.

9. Claims 17, 20, 23 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) in view of Bergenwall et al (US 6,721,291).

Regarding claims 17, 20, 23 and 27, the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) teaches 15. The 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) does not

Art Unit: 2686

specifically disclose forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.

Bergenwall teaches forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber (see column 4, lines 54-60).

Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to provide the teaching of Bergenwall into the system of the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) in order to prevent wasting bandwidth (see Bergenwall, column 4, lines 60-63).

10. Claims 18, 24, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) in view of Sanchez-Herrero et al (Pub.No.: US 2002/0147845 A1) and further in view of Bergenwall et al (US 6,721,291).

Regarding claims 18, 24, and 28, the combination of the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) and Sanchez-Herrero teaches 16, 22 and 26. The combination of the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) and Sanchez-Herrero does not specifically disclose forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber.

Art Unit: 2686

Bergenwall teaches forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care Of Address of the subscriber (see column 4, lines 54-60).

Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to provide the teaching of Bergenwall into the system of the 3GPP (3G TR 23.821 V1.0.1 Release 2000-07) and Sanchez-Herrero in order to prevent wasting bandwidth (see Bergenwall, column 4, lines 60-63).

Response to Arguments

11. Applicant's arguments with respect to claims 1-28 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi H. Ly whose telephone number is (703) 605-5164. The examiner can normally be reached on 8:30 am-5:30 pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (703) 305-4379. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Page 9

Art Unit: 2686

Page 10

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nghi H. Ly

014

CHARLES APPIAH PRIMARY EXAMINER